

Abstract

Warped Plane Phased Array  
Monopulse Radar Antenna

A phased array, phase-amplitude monopulse  
5 antenna arrangement for ground, shipboard or airborne  
radar systems. The phased array antenna is  
systematically warped and projects partially  
overlapping, separate beams from upper and lower  
regions of the array. A single set of phase-shifters  
10 is employed with a simplified feed structure to  
permit development of both azimuthal and elevation  
angle error signals in signal processing circuitry  
for target analysis.